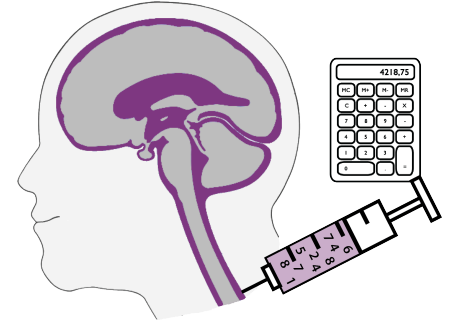# 3D VisionSoft

3D VisionSoft has developed *i²Calc*, a software application that performs basic drug infusion calculations based on algorithms developed by Dr. Carter Jones.

Medical practitioners increasingly utilize infusions of potent medications to manage the medical conditions of their patients. This occurs on a daily basis in the hospital, intensive care unit, operating room, and sometimes outpatient clinics. The ability to calculate drug infusion doses, concentrations, and rate of infusion is imperative for the proper care of patients in these different medical environments. i²Calc brings the power of a drug infusion calculator that can be applied to the inpatient, operating room, and outpatient settings to commonly used smartphone and desktop platforms thereby enabling the medical practitioner to quickly and conveniently manage infusions for the care of their patients.

Although other applications exist that can perform basic drug infusion calculations, none serve the pain medicine practitioner treating patients with intrathecal drug therapy. Drug infusion calculations in this specific patient population is particularly challenging because multiple drugs may be infused concurrently at a single infusion rate, therefore individual drug concentrations must be varied to achieve a specific dose delivered for each drug. In addition, the intrathecal drug delivery pump has a finite volume and the infusion rate must be adjusted to achieve an appropriate refill interval. Not only is the refill interval affected by infusion rate, but some intrathecal pumps also allow the patient to self-administer boluses, the volume and frequency of which can be adjusted by the practitioner. These must also be accounted for as they will affect the amount of drug delivered to the patient and consequently how quickly the pump will empty. i²Calc will allow the chronic practitioner to quickly enter and easily adjust all variables for the comprehensive management of intrathecal drug therapy in chronic pain patients.
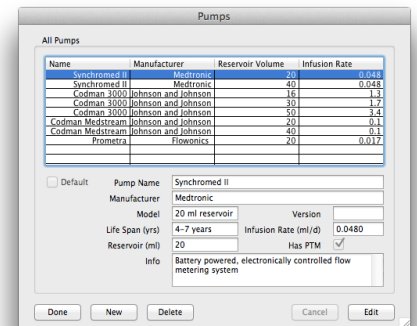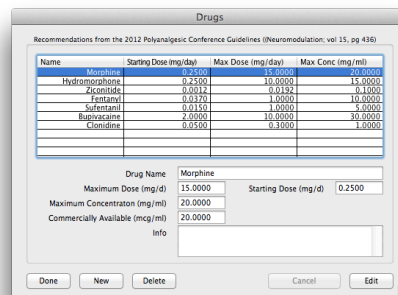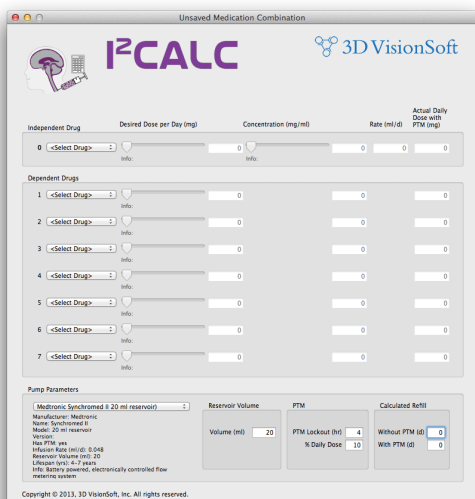
Supported Pumps

- Medtronic Synchromed II
- J&J Codman3000
- J&J Medstream
- Flowonics Prometra
- User-entered parameters

Features

- Simple drug calculations for pain medicine
- Calculate multiple drugs concurrently for medication combinations
- Adjusts easily to different pumps

Solutions

- Intrathecal drug infusion calculations for chronic pain applications

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3D VisionSoft

Our Company

3D VisionSoft provides customized solutions in software for a variety of applications. We work for both clients as well as develop solutions that we think are needed in our complicated world. The applications that we choose are those that we view as having a strong impact factor, or sometimes just cool to have. Whether it's for a client or for us, we follow the basic principles set forth below.

Philosophy

The goal of 3D VisionSoft is to integrate various forms of technologies stemming from computer information services and custom software development to the basic science and medical fields. The company's values are based on strong working relationships with the clients, developing a level of communication, understanding, and interaction that engenders trust, integrity, and honesty. Projects are chosen that can make an impact on life in general by improving the quality of scientific and medical research.

Value Proposition

3D VisionSoft works with each client to understand his or her needs and concerns before taking on a project. The quality of the team interaction and the technology and software end product is the most important goal. We will efficiently evaluate client business requirements before recommending a software design solution. We will develop custom software and perform the software integration if necessary.

Business Opportunities

3D VisionSoft also considers opportunities with novel and important applications in biotechnology and medical instrumentation and brokers deals with the investment community and the entrepreneurs.

Our Team

Our team consists of professionals who share a common goal of fostering a future generation of software intelligence. We are a family of like minded innovators, scientists, clinicians, engineers and experienced businessman focused on developing pragmatic products.

Client side (IOS iPhone, Android phone, IOS iPad, Apple, Windows, Linux), proof of concept modeling and 3D CAD/CAM modeling services are all performed in San Diego, CA, USA. Server side, algorithmic design and mathematical research, specifically in image processing, are carried out in Pune, India. The offices in Perth, Australia liaise with the business and investment arms, and also manage most of the clinical testing for medical applications.

Building Products

At 3D VisionSoft, we can design/create full applications, either for internal use by you or your end user customers, or as actual commercial software products. Our product engineering encompasses the entire product development cycle from conceptualization to maturity. Proof of concepts help you visualize your product and test its basic premises. The development phase focuses on meeting your individual needs to be the best in class. We can bring value to your product by reducing the product release cycles, controlling costs and enabling market leadership through quality and innovation. In addition to the product, we can provide full documentation, technical guidance, and training if needed.

Providing Services

At 3D VisionSoft, you can relax by working with us and letting us pull together our resources to help you support your investment in your business and succeed. We will do what it takes to establish and nurture a long-term relationship with you and work side-by-side with you before and after our working relationship so that you can continuously reap the benefits of our solutions.